

PATENT  
Docket: 16356.726 (DC-01900)  
Customer No. 000027683

### AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A speaker system, comprising:  
at least one transducer;  
at least one speaker analog circuit; and  
a diagnostics circuit coupled to the at least one transducer and the at least one speaker analog circuit, and generating at least one test signal routed to the speaker analog circuit, the transducer and to an analog activity sensor, the test signal being sampled by the analog activity sensor before and after transmission to the speaker analog circuit.
2. (Original) The speaker system recited in Claim 1, wherein the diagnostics circuit further comprises a power diagnostics circuit.
3. (Original) The speaker system recited in Claim 2, wherein the power diagnostics circuit further comprises:  
a rectifier; and  
at least one AC power test indicator coupled to the rectifier.
4. (Original) The speaker system recited in Claim 2, wherein the power diagnostics circuit further comprises:  
an AC-to-DC conversion circuit; and  
at least one DC power test indicator coupled to the AC-to-DC conversion circuit.
5. (Original) The speaker system recited in Claim 1, wherein the diagnostics circuit further comprises an analog diagnostics circuit.

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6. (Original) The speaker system recited in Claim 5, wherein the analog diagnostics circuit further comprises:  
a diagnostic mode activation mechanism; and  
a diagnostic signal generation circuit coupled to the diagnostic mode activation mechanism and coupled to the at least one speaker analog circuit.
7. (Cancelled).
8. (Currently Amended) The speaker system recited in Claim-7\_1, wherein the analog activity sensor further comprises at least one transistor.
9. (Currently Amended) A speaker system recited in Claim-7\_1, wherein the analog activity sensor further comprises at least one comparator.
10. (Original) A speaker system recited in Claim 6, wherein each at least one transducer is coupled to the diagnostic signal generation circuit.
11. (Cancelled).
12. (Currently Amended) A computer system comprising:  
a processor;  
a memory coupled to the processor; and  
a speaker system coupled to the processor, wherein the speaker system includes a diagnostic diagnostics circuit;  
at least one transducer; and  
at least one speaker analog circuit, wherein the diagnostics circuit is coupled to  
the at least one transducer and the at least one speaker analog circuit.

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and generating at least one test signal routed to the speaker analog circuit, the at least one transducer and to an analog activity sensor, the test signal being sampled by the analog activity sensor before and after transmission to the speaker analog circuit.

13. (Cancelled).
14. (Original) The computer system recited in Claim 12, wherein the diagnostics circuit further comprises a power diagnostics circuit.
15. (Original) The computer system recited in Claim 14, wherein the power diagnostics circuit further comprises:  
a rectifier; and  
at least one AC power test indicator coupled to the rectifier.
16. (Original) The computer system recited in Claim 14, wherein the power diagnostics circuit further comprises:  
an AC-to-DC conversion circuit; and  
at least one DC power test indicator coupled to the AC-to-DC conversion circuit.
17. (Original) The computer system recited in Claim 12, wherein the diagnostics circuit further comprises an analog diagnostics circuit.
18. (Original) The computer system recited in Claim 17, wherein the analog diagnostics circuit further comprises:  
a diagnostic mode activation mechanism; and  
a diagnostic signal generation circuit coupled to the diagnostic mode activation mechanism and coupled to the at least one speaker analog circuit.

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19. (Cancelled).

20. (Currently Amended) The computer system recited in Claim ~~19~~ 12, wherein the analog activity sensor further comprises at least one transistor.

21. (Currently Amended) The computer system recited in Claim ~~19~~ 12, wherein the analog activity sensor further comprises at least one comparator.

22. (Original) The computer system recited in Claim 18, wherein each at least one transducer is coupled to the diagnostic signal generation circuit.

23. (Cancelled).

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